

## EQUIPMENT LIST "A"

## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

SPEC. SECTION	ITEM No.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
104	114245	110 L.F.	FURNISH AND INSTALL 24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE).
205	203030	2 C.Y.	TEST PIT EXCAVATION
801	801004	8 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
804	837001	3 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
805	800000	430 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805	805150	65 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
805	800000	95 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805	805160	15 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
805	831010	1 EACH	FURNISH AND INSTALL 250 WATT H.P.S. LAMP LUMINAIRE
807	807205	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
810	802501	170 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
810	861104	335 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED
810	861105	135 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
810	861106	158 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
810	861107	115 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
810	861116	70 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
810	862101	1295 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
811	811001	6 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813	813015	42 S.F.	INSTALL OVERHEAD SIGN
805	805023	30 L.F.	FURNISH AND INSTALL 2" ELECTRICAL CONDUIT - PVC RISER.
814	860220	2 EACH	INSTALL SIGNAL HEADS - MAST ARM MOUNT
814	860015	3 EACH	INSTALL 12 INCH 1 WAY 3 SECTION (R,Y,G) SIGNAL HEAD SPAN MOUNT POLYCARBONATE
814	860020	1 EACH	INSTALL 12 INCH 1 WAY 5 SECTION (R,Y,A,Y,GA,G) SIGNAL HEAD SPAN MOUNT POLYCARBONATE
814	860048	1 EACH	INSTALL 12 INCH 1-WAY 2 SECTION PEDESTRIAN SIGNAL HEAD PEDESTAL MOUNT
815	862102	335 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
816	871117	1 EACH	INSTALL EIGHT-PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNT
817	865201	1 EACH	INSTALL PUSHBUTTON AND SIGN
818	818010	1 EACH	FURNISH AND INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH T-BASE AND ANCHOR BOLTS
818	800000	1 EACH	FURNISH AND INSTALL 27 FT. STEEL POLE WITH A SINGLE 60 FT. MAST ARM
—	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
—	800000	400 L.F.	FURNISH AND INSTALL ELECTRICAL OPTICOM CABLE - 4 CONDUCTOR (NO. 20 AWG)
—	873001	L.S.	REMOVE EXISTING SIGNAL EQUIPMENT TO BE SALVAGED
818	800000	3 EACH	BACK GUY WOOD POLE FOR TEMPORARY TRAFFIC SIGNAL
810	861108	700 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
805	800000	100 L.F.	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
—	800000	1 EACH	FURNISH AND INSTALL 2" WEATHER HEAD
—	800000	1 EACH	FURNISH AND INSTALL 3" WEATHER HEAD
818	866104	1 EACH	FURNISH AND INSTALL 20 FT LIGHTING ARM ON SIGNAL STRUCTURE
—	800000	2 EACH	RELOCATE AND INSTALL OPTICOM DETECTOR (IT WILL BE RELOCATED UNDER PHASE 3 OF CONSTRUCTION SEE DRAWING SS-26)
* —	800000	L.S.	DELIVERY OF SALVAGED MATERIALS
—	800000	1 EACH	FURNISH AND 40" INSTALL CLASS 2 WOOD POLE WITH BACK GUY\S
—	869102	210 L.F.	FURNISH AND INSTALL 3/8" SPAN WIRE.

\* NON - FEDERAL AID ITEM

## EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7941 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

QUANTITY	DESCRIPTION
1	STEEL MAST ARM POLE WITH 40 FT. MAST ARM
1	STEEL TWIN MAST ARM POLE WITH TWIN 60 FT. AND 50 FT. MAST ARMS
1	TRAFFIC SIGNAL CONTROLLER AND CABINET.

- NOTES: 1. THE CONTRACTOR SHALL NOTIFY THE SHA AT 410-787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.  
2. ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

## CONSTRUCTION DETAILS

- A. INSTALL SPAN WIRE TO EXISTING C & P WOOD POLE, INSTALL 2" RISER FOR LOOP DETECTOR WIRE, BACK GUY\S AS DIRECTED BY THE ENGINEER.
- B. INSTALL 27' STEEL POLE WITH 60' MAST ARM, 20' LIGHTING ARM AND LUMINAIRE, 1-3" WEATHER HEAD, 1-2" WEATHER HEAD, SPAN WIRE, TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PUSH BUTTON, RELOCATED OPTICOM DETECTOR AND SIGNS AS SHOWN (NOTE 2 - 3" PVC 90 DEGREE ANGLE BENDS, AND 1-2" PVC 90 DEGREE ANGLE BEND). (SPECIAL NOTE: THE CABLE FROM THE MAST ARM SHALL TERMINATE AT THE CONTROLLER CABINET AND EACH CABLE SHALL BE BY SIGNAL HEAD NUMBER. THIS CABLE WILL BE CONNECTED TO THE CONTROLLER UNDER PHASE 2 OF THE TRAFFIC CONTROL PLANS. THE SIGNALS AND SIGNS WILL BE UNCOVERED ALSO DURING PHASE 2 OF THE TRAFFIC CONTROL PLANS, AND WIRED TO THE CONTROLLER.
- C. INSTALL 14' BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEADS, AS SHOWN (NOTE: 1-2" PVC, 90 DEGREE ANGLE BEND). COVER PEDESTRIAN SIGNAL HEAD, THE PEDESTRIAN SIGNAL WILL BE UNCOVERED IN PHASE 2 OF THE TRAFFIC CONTROL PLANS.
- D. INSTALL NEMA SIZE '6' CABINET (NOTE: 2-4" AND 2-2" 90 DEGREE ANGLE BENDS AND 1-3" PVC 20 DEGREE ANGLE POWER FEED BEND).
- E. INSTALL 1" LIQUID - TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE)
- F. INSTALL HANDHOLE.
- G. INSTALL 2" SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- H. INSTALL 3" SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
- I. INSTALL 3" SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- J. INSTALL 4" SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- K. INSTALL 6"x30' LOOP DETECTOR, ENCASED IN 1/4" FLEXIBLE TUBING (3,6,3 TURNS) QUADRUPOLE TYPE.
- L. NOT USED.
- M. REMOVE AND SALVAGE EXISTING MAST ARM POLES, RELOCATE OPTICOM DETECTORS.
- N. REMOVE EXISTING HANDHOLE.
- O. REMOVE AND SALVAGE EXISTING CABINET.
- P. NOT USED
- Q. INSTALL 24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (CROSSWALK).
- R. ABANDON EXISTING LOOP DETECTOR.
- S. PROPOSED OVERHEAD SERVICE.
- T. INSTALL SPAN WIRE, SIGNAL HEADS, SIGNS AND OPTICOM DETECTOR (THE DETECTOR IS RELOCATED FROM REMOVED MAST ARM).

PHASE I  
TEMPORARY TRAFFIC SIGNAL

SS-20



REVISIONS:	APPROVALS:
	CHIEF SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER TRAFFIC
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION		LOG MILE # 18023513.13
DRAWN BY: DED/SMH	MD 235 @ EXPLORATION PARK DRIVE	
DES. BY: DK/DLA/SMH	SIGNAL PLAN	
CHK. BY: BJH	COUNTY: ST. MARY'S	
DATE: MAY 7, 1999	F.A.P. NO. SEE TITLE SHEET	TS/STD. NO.: 3787A-XI-GII
SCALE: N.T.S.	S.H.A. NO. SEE TITLE SHEET	SHEET NO. 164 OF 241